<110> Rosen et al.

<120> 20 Human Secreted Proteins

<130> PS737

<150> PCT/US02/17699
<151> 2002-06-05

<150> US 60/295,869
<151> 2001-06-06

<150> US 60/304,121
<151> 2001-07-11

<160> 118

<170> PatentIn Ver. 2.0

<210> 1
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<213> Homo sapiens

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tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg 180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
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agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
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gactctagag gat 733

<210> 2
<211> 5
<212> PRT
<213> Homo sapiens

<220>
<221> Site
<222> (3)
<223> Xaa equals any of the twenty naturally ocurring L-amino acids

<400> 2
Trp Ser Xaa Trp Ser
1 5

<210> 3
<211> 86
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3

gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaaatat ctgccatctc aattag 86

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4
gcggcaagct ttttgcaaag cctaggc 27

<210> 5
<211> 271
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
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aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120
gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 6
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
<211> 12
<212> DNA
<213> Homo sapiens

<400> 8

ggggactttc cc 12

<210> 9
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
ccatctcaat tag 73

<210> 10
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

<400> 10
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caattagtca gcaaccatag tcccgccccct aactccgccc atcccgcccc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256

<210> 11
<211> 1098
<212> DNA
<213> Homo sapiens

<400> 11
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gcggctgctg ctgccgctcc tgccgctcct gccgctgccg caggtgggtc gggcggcgtt 120
ctctctcggt tcggcaaccg cggggcgggt ccctgctcgg accacgcccc tcccgggctc 180
acccttgtcc ccacaggtgg cgctgggctt cgcggacggc agctgcgacc cctcggacca 240
gtgcccgccc caggcccgct ggagcagcct gtggcacgtg gggctcatcc tgctggcggt 300
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gcttggagcc aagggcccca gcccacccca ccgtcccaca cattgctgtg gccccaacct 840
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tgtatttaag tggaaaaaaa actgcactcc tccttaccac aaaatgggcg gccgctctag 1080
aggatccctc gaggggcc 1098

<210> 12
<211> 806
<212> DNA
<213> Homo sapiens

<400> 12
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tgagcctgac tctactattt tgcctgctgt cttttcaatt tccttttgtt tttcctgcaa 120

gaaacatctc tctgaagtgc gtgcaagata ctgatgaatt cctttccgat ctgaattcag 180
tgaagcccaa agaatacgct ctaagaatgt atgactctct ggggaagctt gggagcaaca 240
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tttcccagga tggggctgac tacagtgtgg gcgtgtgtgt ccctgattct tgtgctgaag 480
aggatgtgac tctgatgtct cggctggatg tgagacaacc agctcggcag taccaggtgg 540
aagctgtttg cacggactgc actcacccag aggaggggag cagggagggc tggtctcaga 600
tcgggcgaga aaaagtgccc cagtactgca gagggagagc aagatcctgg caggtcagga 660
cgtaactgct tttggccaaa ggctagggca aaacgctgca cagttgttgt catagaatgt 720
tataaaattt cacccaacag actttaccag agttcctaag aataaaaata tgtccccaa 780
aaaaaaaaaa aaaaaaaaaa aaaaag 806

<210> 13
<211> 1203
<212> DNA
<213> Homo sapiens

<400> 13
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caatgcawka tyctccgctg caatgctgag tacgtatcgt ccactctgag ccttagaggt 180
gggggttcat caggagcact tcgaggagga ggaggaggag gccggggtgg aggggtgggc 240
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atgcttactt ccattcctgt gtctttgatg ttttaatttc tggtgatccc aactttaccg 420
tggcagctca ggcagcactg gaggatgccc gagccttcct gccagactta gagaagctgc 480
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aaa 1203

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<211> 1178
<212> DNA
<213> Homo sapiens

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<210> 15
<211> 1804
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<222> (1797)..(1797)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1802)..(1802)
<223> n equals a,t,g, or c

<400> 15
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gnag 1804

<210> 16
<211> 2758
<212> DNA
<213> Homo sapiens

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<210> 17
<211> 532
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (532)..(532)
<223> n equals a,t,g, or c

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cacatatgga tcaaattatt ttctttttttg ttgtttaccc tatcctcaac aacatttta 240
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taaggtgcaa agctatttta tgcttaactg ttgctctgtc aaaacagcta tgcagtggag 360
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<210> 18
<211> 1545
<212> DNA
<213> Homo sapiens

<400> 18
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<211> 1804
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<210> 38
<211> 2794
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (2779)..(2779)
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<221> misc_feature
<222> (2792)..(2793)
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<212> DNA
<213> Homo sapiens

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<211> 455
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 42
<211> 1975
<212> DNA
<213> Homo sapiens

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<210> 43
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<212> DNA
<213> Homo sapiens

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<211> 659
<212> DNA
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<211> 672
<212> DNA
<213> Homo sapiens

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<210> 46
<211> 685
<212> DNA
<213> Homo sapiens

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<211> 4166
<212> DNA
<213> Homo sapiens

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<211> 1389
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>
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<222> (1360)..(1360)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1386)..(1386)
<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 53
<211> 2719

<212> DNA
<213> Homo sapiens

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gtaaaaaaaa aaaaaaaaa 2719

<210> 54
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (356)..(356)
<223> n equals a,t,g, or c

<400> 54
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aa 442

<210> 55
<211> 334
<212> DNA
<213> Homo sapiens

<400> 55
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aagcataact gaaagaaata aaaaccatcg ggcc 334

<210> 56
<211> 1406
<212> DNA
<213> Homo sapiens

<400> 56
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<210> 57
<211> 603
<212> DNA
<213> Homo sapiens

<400> 57
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tttctgtttg gatttttctt ctgggtctta tgtttggggg gaggtttatt ctttctgaaa 180
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aaa 603

<210> 58
<211> 1479
<212> DNA

<213> Homo sapiens

<400> 58
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<210> 59
<211> 605
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (509)..(509)
<223> n equals a,t,g, or c

<400> 59
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ggggt 605

<210> 60
<211> 712
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (24)..(24)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (55)..(55)
<223> n equals a,t,g, or c

<220>

<221> misc_feature
<222> (75)..(75)
<223> n equals a,t,g, or c

<400> 60
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ggggagtatg agttntacgg cagacataca acagcttgag cccggcagcg ttattcagct 120
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<210> 61
<211> 1376
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1364)..(1364)
<223> n equals a,t,g, or c

<400> 61
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<210> 62
<211> 417
<212> DNA
<213> Homo sapiens

<400> 62
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gtgtgtgtgt atatgtgttt atagagatac acacacatat atatgtgtgt atatatatac 180
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agatgccctt ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaag 417

<210> 63

<211> 1835
<212> DNA
<213> Homo sapiens

<400> 63
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tcaccaccct ggtcagggga atagaaggaa atgcaatttc cgcctgtctg cccgacttcc 1620
aaaaactgcc tcctcctgcc caggcctctc ccaccaccac cttccctcca aagataaccg 1680
tgtccatgcc atccgtggca tcatctcgag ttttcatttt tggatgaagt gacatttagc 1740
tttaacaaga catttccaaa gcgcctagtc tcctccaaaa tgctaacttt aaaagttggg 1800
cattgtaggc gaaaaatccc aaaaaaaaaa aaaaa 1835

<210> 64
<211> 1701
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1683)..(1683)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1696)..(1696)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1701)..(1701)
<223> n equals a,t,g, or c

<400> 64
atgtccaaat cactacttgt aggattttct acatgaactt ttttctagga ctttggttac 60
tatacatatt gtatatttta agaattcttt atacaatttt aatatactgc aatactgcag 120
tttttgacaa tttggattcc atttggtata tgaatttttg cattcattat tgaataactc 180
ttttaatatt tttgagcaat gattatactg ctttaccttg tgtcactttt tttttttta 240
ggaaaaactc atgttccagt atatttctct tacagagtga agtcattaca gcactgtatt 300
tctgtgttga catttgttgg cagtgtgcta agtaatgttt tttaaagcac aggcttgagg 360
actatggttt acatcctgtt ggaaacattc caaatgggac ttgtgtatta tacccaggag 420
gctctcatat ataccatctt ggcatctgta ctgatgaata agttataatg aacagttaaa 480
aatgctcatt gaaaattaaa taaaacaaaa aggcagttat ttcatgcttg gtcaaaaaca 540
tcaatacctt tccaattaac actgagaaat taaggttaag attctccttt tgtactggga 600

```
aacaggctgg aggactatgg tcctcaagtt tagaccaaga ggactatggt ctcaaggttc     660
accatgagaa atgtgttgaa cattttagta tgctctattg tataattttt ttggaggggg     720
ggatggagtt tcgctgttgt tgcccaggct ggagtgcaat agcaccatct tggctcaccg     780
caacctctgc ctaccgggtt caagtaattc ttgwgcctca gcctcctgag tagctgggat     840
tataggcatg caccaccatg cccagctaat tttgtatttt tattagagac agggtttctc     900
cgtgttggtc aggctggtct caaactcctg acctcaggtg atctgcctgt cttgcctccg     960
gcgtaacact ttttaagacc agtgtaacag aaagagaatg tagccattct agccaccgtt    1020
aaaagataca cagtgaggtg ttgtgttttg tttttttaat gatgaaaagt tacacatttt    1080
ttggagagaa aagtcttagc tgaaggtaaa tcaatggaaa aatgaaattt atttttaata    1140
ttactatatg aattatcttt ttttaaactt gtagataaaa gtgttccagt aatcagaaaa    1200
tcctcaagaa mattgacttc attatttgga aggaaaatta gtatttttt taatattata    1260
tggaccatct gattatattt watttattca tctatttatg gtatgtatgt ataattctat    1320
attacactgt caaatataaa atattgttat atgagtagaa atcacttaaa tttttttgt     1380
gtttgtgaat ttgaaacagt gtaagaaatc acttttaaga aaacattttt agaattyctt    1440
tgttttttt ttttttttctt tttgaaacag ggtctcactc tgttgcccag gctggagtgc    1500
actggcgtga tctcggctca ctggcacctt ctgcctaccg agttcaagcg attcttgtgc    1560
ttcagcctcc tggagtagct ggggactata ggcctgtacc gtcatgcctg gctaattttt    1620
gtatttttgt agagacaggg tttcaccatg ttggcccagt ctgttcttca aactcgtgga    1680
gcnaaaagct actcgnccac n                                              1701
```

<210> 65
<211> 237
<212> PRT
<213> Homo sapiens

<400> 65

```
Met Ala Arg Gly Pro Leu Ala Ala Arg Gly Leu Arg Leu Leu Leu Pro
  1               5                  10                  15

Leu Leu Pro Leu Leu Pro Leu Pro Gln Val Gly Arg Ala Ala Phe Ser
            20                  25                  30

Leu Gly Ser Ala Thr Ala Gly Arg Val Pro Ala Arg Thr Thr Pro Leu
        35                  40                  45

Pro Gly Ser Pro Leu Ser Pro Gln Val Ala Leu Gly Phe Ala Asp Gly
    50                  55                  60

Ser Cys Asp Pro Ser Asp Gln Cys Pro Pro Gln Ala Arg Trp Ser Ser
65                  70                  75                  80

Leu Trp His Val Gly Leu Ile Leu Leu Ala Val Leu Leu Leu Leu Leu
                85                  90                  95

Cys Gly Val Thr Ala Gly Cys Val Arg Phe Cys Cys Leu Arg Lys Gln
            100                 105                 110

Ala Gln Ala Gln Pro His Leu Pro Pro Ala Arg Gln Pro Cys Asp Val
        115                 120                 125

Ala Val Ile Pro Met Asp Ser Asp Ser Pro Val His Ser Thr Val Thr
    130                 135                 140

Ser Tyr Ser Ser Val Gln Tyr Pro Leu Gly Met Arg Leu Pro Leu Pro
145                 150                 155                 160

Phe Gly Glu Leu Asp Leu Asp Ser Thr Ala Pro Pro Ala Tyr Ser Leu
                165                 170                 175

Tyr Thr Pro Glu Pro Pro Pro Ser Tyr Asp Glu Ala Val Lys Met Ala
            180                 185                 190

Lys Pro Arg Glu Glu Gly Pro Ala Leu Ser Gln Lys Pro Ser Pro Leu
        195                 200                 205

Leu Gly Ala Ser Gly Leu Glu Thr Thr Pro Val Pro Gln Glu Ser Gly
    210                 215                 220
```

Pro Asn Thr Gln Leu Pro Pro Cys Ser Pro Gly Ala Pro
225 230 235

<210> 66
<211> 202
<212> PRT
<213> Homo sapiens

<400> 66
Met Met Ser Leu Thr Leu Leu Phe Cys Leu Leu Ser Phe Gln Phe Pro
1 5 10 15

Phe Val Phe Pro Ala Arg Asn Ile Ser Leu Lys Cys Val Gln Asp Thr
20 25 30

Asp Glu Phe Leu Ser Asp Leu Asn Ser Val Lys Pro Lys Glu Tyr Ala
35 40 45

Leu Arg Met Tyr Asp Ser Leu Gly Lys Leu Gly Ser Asn Thr Phe Asn
50 55 60

Gly Asn Asn Gly Gln Ala Gly Ile Ile His Gly Val Ser Phe His Pro
65 70 75 80

Cys Ser Gln Gly Glu Leu Pro Arg Val Val Leu Gln Ala Ser Tyr Thr
85 90 95

Ala Ala Ala Asn Leu Leu Gly Met Ile Met Arg Ile Cys Tyr Glu Cys
100 105 110

Gln Asn Glu Arg Thr Leu Trp Arg Cys Val Ser Gln Asp Gly Ala Asp
115 120 125

Tyr Ser Val Gly Val Cys Val Pro Asp Ser Cys Ala Glu Glu Asp Val
130 135 140

Thr Leu Met Ser Arg Leu Asp Val Arg Gln Pro Ala Arg Gln Tyr Gln
145 150 155 160

Val Glu Ala Val Cys Thr Asp Cys Thr His Pro Glu Glu Gly Ser Arg
165 170 175

Glu Gly Trp Ser Gln Ile Gly Arg Glu Lys Val Pro Gln Tyr Cys Arg
180 185 190

Gly Arg Ala Arg Ser Trp Gln Val Arg Thr
195 200

<210> 67
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 67
Met Gly Glu Pro Gly Gln Ser Pro Ser Pro Arg Ser Ser His Gly Ser
1 5 10 15

Pro Pro Thr Leu Ser Thr Leu Thr Leu Leu Leu Leu Leu Cys Gly His
20 25 30

```
Ala His Ser Gln Cys Xaa Ile Leu Arg Cys Asn Ala Glu Tyr Val Ser
         35                  40                  45

Ser Thr Leu Ser Leu Arg Gly Gly Gly Ser Ser Gly Ala Leu Arg Gly
     50                  55                  60

Gly Gly Gly Gly Gly Arg Gly Gly Gly Val Gly Ser Gly Gly Leu Cys
 65                  70                  75                  80

Arg Ala Leu Gln Val Ser Asp Ser Leu Asp Gln Ser Ala Ile Val Gly
                 85                  90                  95

Glu Leu
```

<210> 68
<211> 104
<212> PRT
<213> Homo sapiens

<400> 68

```
Met Phe Ser Glu Ala Leu Leu Ile His Arg Thr Tyr Leu Ala Tyr Leu
  1               5                  10                  15

Phe Ala Cys Leu Leu Leu Met Ser Ser Leu Thr Glu Ser Leu Leu Gln
            20                  25                  30

Arg Thr Thr Pro Ala Ser Arg Pro Arg Asn Val Gly Lys Gly Lys Ala
         35                  40                  45

Trp Leu Val Leu Val Glu Met Glu Met Leu Val Thr Val Glu Glu Cys
     50                  55                  60

Pro Pro Ser Asp Ser Gln Trp Gly Gly Ala Leu Gly Pro Cys His Cys
 65                  70                  75                  80

Pro Arg Thr Ser Ala Phe Gly Cys Pro Ala Glu Arg Met Arg His Leu
                 85                  90                  95

Ser Ser Ser Phe Trp Ser Pro Glu
            100
```

<210> 69
<211> 187
<212> PRT
<213> Homo sapiens

<400> 69

```
Val Asp Met Ala Ala Gly Pro Ile Arg Val Val Leu Val Leu Leu Gly
  1               5                  10                  15

Val Leu Ser Val Cys Ala Ala Ser Gly His Gly Ser Val Ala Glu Arg
            20                  25                  30

Glu Ala Gly Gly Glu Ala Glu Trp Ala Glu Pro Trp Asp Gly Ala Val
         35                  40                  45

Phe Arg Pro Pro Ser Ala Leu Gly Ala Pro Pro Arg Gly Val Ala Pro
     50                  55                  60

Gln Gln Leu Leu Ala Glu Pro Arg Pro Gly His Pro Pro Leu Gln Ser
 65                  70                  75                  80
```

```
Tyr Leu His Leu Gln Ser Pro Leu Gly Leu Pro Ala Val Ala Ala Val
                 85                  90                  95

Ala Ala Arg Asp Arg Leu Ser Ala Pro Pro Gly Ala Ser Ala His Gly
            100                 105                 110

Thr Arg Gly Val Ala Pro Pro Arg Leu Arg Ala Ala Ala Leu Ser Ala
        115                 120                 125

Val Thr Leu Arg Arg Ala Ser Gly Pro Gly Pro Leu Arg Ala Arg Ala
    130                 135                 140

His Ala Pro His Pro Gly Arg Leu Leu Arg Glu Met Pro Ala Glu Ser
145                 150                 155                 160

Gly Ala Ala Tyr Arg Ala Ala Thr Gly His Ser His Gly His His Arg
                165                 170                 175

Gly Ser Arg Ala Leu Gly Phe Leu Val Pro Leu
            180                 185
```

<210> 70
<211> 319
<212> PRT
<213> Homo sapiens

<400> 70

```
Met Leu Pro Arg Arg Pro Leu Ala Trp Pro Ala Trp Leu Leu Arg Gly
  1               5                  10                  15

Ala Pro Gly Ala Ala Gly Ser Trp Gly Arg Pro Val Gly Pro Leu Ala
            20                  25                  30

Arg Arg Gly Cys Cys Ser Ala Pro Gly Thr Pro Glu Val Pro Leu Thr
        35                  40                  45

Arg Glu Arg Tyr Pro Val Gln Arg Leu Pro Phe Ser Thr Val Ser Lys
    50                  55                  60

Gln Asp Leu Ala Ala Phe Glu Arg Ile Val Pro Gly Gly Val Val Thr
65                  70                  75                  80

Asp Pro Glu Ala Leu Gln Ala Pro Asn Val Asp Trp Leu Arg Thr Leu
                85                  90                  95

Arg Gly Cys Ser Lys Val Leu Leu Arg Pro Arg Thr Ser Glu Glu Val
            100                 105                 110

Ser His Ile Leu Arg His Cys His Glu Arg Asn Leu Ala Val Asn Pro
        115                 120                 125

Gln Gly Gly Asn Thr Gly Met Val Gly Gly Ser Val Pro Val Phe Asp
    130                 135                 140

Glu Ile Ile Leu Ser Thr Ala Arg Met Asn Arg Val Leu Ser Phe His
145                 150                 155                 160

Ser Val Ser Gly Ile Leu Val Cys Gln Ala Gly Cys Val Leu Glu Glu
                165                 170                 175

Leu Ser Arg Tyr Val Glu Glu Arg Asp Phe Ile Met Pro Leu Asp Leu
            180                 185                 190

Gly Ala Lys Gly Ser Cys His Ile Gly Gly Asn Val Ala Thr Asn Ala
        195                 200                 205
```

```
Gly Gly Leu Arg Phe Leu Arg Tyr Gly Ser Leu His Gly Thr Val Leu
    210                 215                 220

Gly Leu Glu Val Val Leu Ala Asp Gly Thr Val Leu Asp Cys Leu Thr
225                 230                 235                 240

Ser Leu Arg Lys Asp Asn Thr Gly Tyr Asp Leu Lys Gln Leu Phe Ile
                245                 250                 255

Gly Ser Glu Gly Thr Leu Gly Ile Ile Thr Thr Val Ser Ile Leu Cys
            260                 265                 270

Pro Pro Lys Pro Arg Ala Val Asn Val Ala Phe Leu Val Thr Cys Val
        275                 280                 285

Leu Pro Ala Cys Gly Pro Gly Ser Pro Arg Pro Ala Arg Leu Pro His
    290                 295                 300

Pro Ala Leu Arg Thr Pro Gly Val Cys Pro Gln Pro Leu Arg Leu
305                 310                 315
```

<210> 71
<211> 97
<212> PRT
<213> Homo sapiens

<400> 71

```
Met Leu Trp Lys Leu Lys Leu Ser Arg Cys Trp Leu Asp Leu Thr Leu
  1               5                  10                  15

Leu Ile Phe Ser Gln Ile Ser His Met Asp Gln Ile Ile Phe Phe Phe
            20                  25                  30

Val Val Tyr Pro Ile Leu Asn Asn Ile Phe Ser Leu Asn Tyr Cys Arg
        35                  40                  45

Asp Phe Phe Cys Gly Gly Tyr Phe Leu Phe Cys Ser Lys Ile Ile Arg
    50                  55                  60

Cys Lys Ala Ile Leu Cys Leu Thr Val Ala Leu Ser Lys Gln Leu Cys
65                  70                  75                  80

Ser Gly Val Ala Phe Asp Val Leu Glu Phe Asp Tyr Met Gln Ser Cys
                85                  90                  95

Ile
```

<210> 72
<211> 333
<212> PRT
<213> Homo sapiens

<400> 72

```
Met Arg Ile Trp Trp Leu Leu Leu Ala Ile Glu Ile Cys Thr Gly Asn
  1               5                  10                  15

Ile Asn Ser Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile Pro Gly
            20                  25                  30

Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala
        35                  40                  45

Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro
```

```
     50                  55                  60

Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala Asp Gly
 65                  70                  75                  80

Lys Val Glu Ala Lys Gly Ile Lys Gly Asp Gln Gly Ser Arg Gly Ser
                85                  90                  95

Pro Gly Lys His Gly Pro Lys Gly Leu Ala Gly Pro Met Gly Glu Lys
            100                 105                 110

Gly Leu Arg Gly Glu Thr Gly Pro Gln Gly Gln Lys Gly Asn Lys Gly
        115                 120                 125

Asp Val Gly Pro Thr Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro
    130                 135                 140

Leu Gly Pro Thr Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro
145                 150                 155                 160

Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro Gly
                165                 170                 175

Val Arg Gly Ile Arg Gly Trp Lys Gly Asp Arg Gly Glu Lys Gly Lys
            180                 185                 190

Ile Gly Glu Thr Leu Val Leu Pro Lys Ser Ala Phe Thr Val Gly Leu
        195                 200                 205

Thr Val Leu Ser Lys Phe Pro Ser Ser Asp Val Pro Ile Lys Phe Asp
    210                 215                 220

Lys Ile Leu Tyr Asn Glu Phe Asn His Tyr Asp Thr Ala Ala Gly Lys
225                 230                 235                 240

Phe Thr Cys His Ile Ala Gly Val Tyr Tyr Phe Thr Tyr His Ile Thr
                245                 250                 255

Val Phe Ser Arg Asn Val Gln Val Ser Leu Val Lys Asn Gly Val Lys
            260                 265                 270

Ile Leu His Thr Lys Asp Ala Tyr Met Ser Ser Glu Asp Gln Ala Ser
        275                 280                 285

Gly Gly Ile Val Leu Gln Leu Lys Leu Gly Asp Glu Val Trp Leu Gln
    290                 295                 300

Val Thr Gly Gly Glu Arg Phe Asn Gly Leu Phe Ala Asp Glu Asp Asp
305                 310                 315                 320

Asp Thr Thr Phe Thr Gly Phe Leu Leu Phe Ser Ser Pro
                325                 330


<210> 73
<211> 96
<212> PRT
<213> Homo sapiens

<400> 73
Met Ile Ser Cys Leu Ile Leu Leu Gly Pro Gly Arg Cys Gly Ala Cys
  1               5                  10                  15

Asn Cys Ser Thr Phe Ser Trp Val Phe Leu Phe Ser Phe Phe Gly Ser
            20                  25                  30

Leu Ala Met Cys Val Leu Tyr Asp Glu Ala Pro Ser Phe Cys Arg Ile
```

```
         35                  40                  45

Ser Ile Leu Pro Arg Ser Lys Ala Thr Ile Ser Asp Val Gly Leu Ser
     50                  55                  60

Leu Phe Ser Trp Ala Thr Met His Ala Ser Gly Phe Gln Val Val Leu
 65                  70                  75                  80

Ala Leu Pro Tyr Phe Thr Phe Ile Leu Pro Ser Gln Leu Pro Val Arg
                 85                  90                  95
```

<210> 74
<211> 192
<212> PRT
<213> Homo sapiens

<400> 74

```
Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys
  1               5                  10                  15

Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
            20                  25                  30

Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
         35                  40                  45

Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
     50                  55                  60

Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
 65                  70                  75                  80

Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
                 85                  90                  95

Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
            100                 105                 110

Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
        115                 120                 125

Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
    130                 135                 140

Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
145                 150                 155                 160

Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
                165                 170                 175

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr
            180                 185                 190
```

<210> 75
<211> 119
<212> PRT
<213> Homo sapiens

<400> 75
Met Ser Val Cys Phe Leu Gln Phe Leu Leu Met Val Leu Thr Gly Thr
1 5 10 15

Glu Ser Ile Tyr Ser Thr Leu Gln Asn Cys Val Ser Cys Ile Val Ile
20 25 30

Gln Phe Ile Asp Leu Tyr Ser Ile Val Ile Thr Thr His Ser Gly Met
35 40 45

His Glu Ser Glu Ala Glu His His Leu Arg Leu Val Leu Tyr Asn Ile
50 55 60

Ile Pro Thr Asp Val Gly Pro Gly Asn Arg Thr Glu Pro Val Phe Phe
65 70 75 80

Leu Met Leu Ser Arg Leu Pro Pro Val Gly Leu Leu Leu Asp Ile Ser
85 90 95

Pro Phe Gly Leu Phe Leu His Ser Asn Pro Ala Gly Thr Val Asn Asn
100 105 110

Trp Met Phe Ile Lys Trp Gly
115

<210> 76
<211> 169
<212> PRT
<213> Homo sapiens

<400> 76
Met Tyr Gln Tyr Arg Val Asp Thr Gly Asn Phe Gln Gly Met Lys Val
1 5 10 15

Phe Phe Met Val Val Ala Ala Val Tyr Ile Leu Tyr Leu Leu Phe Leu
20 25 30

Ile Val Arg Ala Cys Ser Glu Leu Arg His Met Pro Tyr Val Asp Leu
35 40 45

Arg Leu Lys Phe Leu Thr Ala Leu Thr Phe Val Val Leu Val Ile Ser
50 55 60

Ile Ala Ile Leu Tyr Leu Arg Phe Gly Ala Gln Val Leu Gln Asp Asn
65 70 75 80

Phe Val Ala Glu Leu Ser Thr His Tyr Gln Asn Ser Ala Glu Phe Leu
85 90 95

Ser Phe Tyr Gly Leu Leu Asn Phe Tyr Leu Tyr Thr Leu Ala Phe Val
100 105 110

Tyr Ser Pro Ser Lys Asn Ala Leu Tyr Glu Ser Gln Leu Lys Asp Asn
115 120 125

Pro Ala Phe Ser Met Leu Asn Asp Ser Asp Asp Asp Val Ile Tyr Gly
130 135 140

Ser Asp Tyr Glu Glu Met Pro Leu Gln Asn Gly Gln Ala Ile Arg Ala
145 150 155 160

Lys Tyr Lys Glu Glu Ser Asp Ser Asp
165

<210> 77
<211> 133
<212> PRT
<213> Homo sapiens

<400> 77
Met Pro Pro Leu Pro Pro Ile Phe Gln Lys Ser Leu Ala Pro Leu Phe
1 5 10 15

Leu Phe Leu His Pro Ser Pro Gln Arg Ser Leu Thr Arg Asn Lys Gln
20 25 30

Glu Asp Ser Val Ile Tyr Lys Arg His Phe Ser Phe Thr Arg Thr Glu
35 40 45

Asn Ser Thr Gln His Tyr Arg Ile Leu Arg Leu Leu Lys Phe Leu Ile
50 55 60

Phe Leu Gly Ile Tyr Ile Leu Ile Arg Glu Pro Met Val Leu Gln Thr
65 70 75 80

Phe Glu Lys Asn Thr Tyr Thr Leu Asp Asn Phe Lys Arg Tyr Lys Gln
85 90 95

Thr Gln Leu Ser Phe Phe Leu Ile Pro Val Leu Gln Pro Pro Ser Phe
100 105 110

Phe Ser Pro Glu Gly Ile Ser Tyr His Leu Leu Val Ile Leu Pro Asp
115 120 125

Tyr Pro Val Pro Met
130

<210> 78
<211> 56
<212> PRT
<213> Homo sapiens

<400> 78
Met Asn Thr Tyr Lys Pro Phe Ala Lys Tyr Lys Asn Met Thr Cys Phe
1 5 10 15

Leu His Leu Leu Met Cys Phe Phe Pro Phe Pro Phe Leu Cys Cys Leu
20 25 30

Pro Cys Ile His Gly His Phe Lys Ile Cys Tyr Ser Ile Ala Tyr Ser
35 40 45

Val Gly Arg Phe Arg Phe Phe Ser
50 55

<210> 79
<211> 285
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (248)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 79
Met Thr Asp Tyr Trp Val Leu Ile Phe Phe Asn Leu Leu Phe Thr Ser
1 5 10 15

Ala Pro Pro Val Ile Tyr Gly Val Leu Glu Lys Asp Val Ser Ala Glu
20 25 30

Thr Leu Met Gln Leu Pro Glu Leu Tyr Arg Ser Gly Gln Lys Ser Glu
35 40 45

Ala Tyr Leu Pro His Thr Phe Trp Ile Thr Leu Leu Asp Ala Phe Tyr
50 55 60

Gln Ser Leu Val Cys Phe Phe Val Pro Tyr Phe Thr Tyr Gln Gly Ser
65 70 75 80

Asp Thr Asp Ile Phe Ala Phe Gly Asn Pro Leu Asn Thr Ala Ala Leu
85 90 95

Phe Ile Xaa Leu Leu His Leu Val Ile Glu Ser Lys Ser Leu Thr Trp
100 105 110

Ile His Leu Leu Val Ile Ile Gly Ser Ile Leu Ser Tyr Phe Leu Phe
115 120 125

Ala Ile Val Phe Gly Ala Met Cys Val Thr Cys Asn Pro Pro Ser Asn
130 135 140

Pro Tyr Trp Ile Met Gln Glu His Met Leu Asp Pro Val Phe Tyr Leu
145 150 155 160

Val Cys Ile Leu Thr Thr Ser Ile Ala Leu Leu Pro Arg Phe Val Tyr
165 170 175

Arg Val Leu Gln Gly Ser Leu Phe Pro Ser Pro Ile Leu Arg Ala Lys
180 185 190

His Phe Asp Arg Leu Thr Pro Glu Glu Arg Thr Lys Ala Leu Lys Lys
195 200 205

Trp Arg Gly Ala Gly Lys Met Asn Gln Val Thr Ser Lys Tyr Ala Asn
210 215 220

Gln Ser Ala Gly Lys Ser Gly Arg Arg Pro Met Pro Gly Pro Ser Ala
225 230 235 240

Val Phe Ala Met Lys Ser Ala Xaa Ser Cys Ala Ile Glu Gln Gly Asn
245 250 255

Leu Ser Leu Cys Glu Thr Ala Leu Asp Gln Gly Tyr Ser Glu Thr Lys
260 265 270

Ala Phe Glu Met Ala Gly Pro Ser Lys Gly Lys Glu Ser
275 280 285

<210> 80
<211> 87
<212> PRT
<213> Homo sapiens

<400> 80
Met His Phe Leu Arg Gly Leu Pro Ala Gly Ala Pro Leu Arg Leu Val
1 5 10 15

```
Phe Leu Leu Asn Val Leu Leu Leu Gly Leu Trp Asn Phe Leu Leu Leu
            20                  25                  30

Cys Thr Val Ile Tyr Phe His Gln Tyr Thr His Lys Val Val Gly Ala
        35                  40                  45

Ala Val Gly Thr Phe Ala Trp Tyr Leu Thr Tyr Gly Ser Trp Tyr His
    50                  55                  60

Gln Pro Trp Ser Pro Gly Ser Pro Gly His Gly Leu Phe Pro Arg Pro
65                  70                  75                  80

His Ser Ser Arg Lys His Asn
                85
```

<210> 81
<211> 86
<212> PRT
<213> Homo sapiens

<400> 81

```
Met Val Ile Leu Phe Leu Phe Gly Phe Phe Phe Trp Val Leu Cys Leu
  1               5                  10                  15

Gly Gly Gly Leu Phe Phe Leu Lys Met Ser Arg Phe Arg Asn Thr Phe
            20                  25                  30

Met Arg Ile Trp Ile Leu Asn Leu Tyr Phe Pro Leu Ser Ala Phe Phe
        35                  40                  45

Asn Val Tyr Phe Phe Asn Lys Thr Glu Met His Ser Cys Thr Ile Leu
    50                  55                  60

Leu Lys Leu Asp Gln Gly Ser Gln Lys Arg Thr Pro Glu Phe Leu Pro
65                  70                  75                  80

Leu Pro Arg Ala Ser Ala
                85
```

<210> 82
<211> 105
<212> PRT
<213> Homo sapiens

<400> 82

```
Arg Thr Arg Lys Thr Ala Gln Gly Thr Glu Thr Ala Arg Thr Leu Gln
  1               5                  10                  15

Ala Gln Phe Gly Asp Gly Tyr Lys Gln Ile Ala Gly Met Gly Ile Asn
            20                  25                  30

Asp Lys Gln Glu Thr Trp Asn Leu Asp Trp Thr Gly Thr Arg Gln Glu
        35                  40                  45

Ala Ala Ala Leu Arg Ala Phe Leu Met Ser His Val Thr Lys Ser Phe
    50                  55                  60

Trp Trp Thr Thr Pro Trp Gly Glu Lys Lys Leu Phe Arg Met Lys Ala
65                  70                  75                  80

Asp Ser Phe Ser Val Ser Phe Pro Thr Gly Lys Lys Ala Thr Val Ala
                85                  90                  95

Phe Thr Phe Glu Gln Ala Phe Ala Pro
```

100 105

<210> 83
<211> 137
<212> PRT
<213> Homo sapiens

<400> 83
Met Ser Pro Thr Ala Trp His Pro Ile Pro Ala Ala Thr Leu Trp Cys
1 5 10 15

Phe Gly Cys Gly Ala Leu Thr Cys Leu Val Gly Val Ala Cys Leu Ser
20 25 30

Pro Ser Pro Trp Ile Arg Asn Asn Leu Cys Gln Ser Arg Val Cys Glu
35 40 45

Pro Ser Cys Ser His Pro Ser Thr Ser Trp Ser Leu Ala Ala Trp Ala
50 55 60

Ala Leu Gly Ser His Thr Ser Ala Gly Leu Thr Ser Gly Ala Val Leu
65 70 75 80

Leu Thr Gly Thr Thr Lys Ser Leu Asp Thr Cys Val Pro Trp Lys Trp
85 90 95

Gln Arg Ser Gly Thr Pro Ser Pro Pro Cys Arg Gln Arg Ala Leu Arg
100 105 110

Gln Ser Cys Glu Pro Trp Ala Gly Pro Arg Val Ala Pro Pro Arg Pro
115 120 125

Pro Gly His Gln Gly Ser Glu Gly Glu
130 135

<210> 84
<211> 145
<212> PRT
<213> Homo sapiens

<400> 84
Met Ser Ser Leu Phe Phe Thr Leu Leu Ile Val Pro Ser Thr Ser Leu
1 5 10 15

Thr Cys Val Leu His Leu Met Ser Pro Arg Thr Thr Pro His Arg Thr
20 25 30

Val Arg His Val Gly Trp Arg Glu Gln Lys Ser Cys Gln Arg Ser Arg
35 40 45

His Glu His Pro Ser Ala Trp Trp Ala Gly Phe Val Cys Leu Ser Phe
50 55 60

Cys Glu Arg Asn Thr Asp Lys Gln Leu Cys Ser Ala Arg His Thr Asp
65 70 75 80

Val Ser Leu Pro Pro Val Pro Lys Ala Pro Ala Ala Val Ser Phe Ala
85 90 95

Gly Arg Ala Trp Ser Arg Gly Ser Glu Gly Leu Val Phe Gly Pro Pro
100 105 110

Ser Phe Leu Ser Ser Pro Ala Gln Leu Leu Arg Ser Ile Met Ala Ile
115 120 125

Ile Leu Val Pro Asp Cys Pro Lys Val Pro Ser Trp Leu Trp Gly Thr
130 135 140

Leu
145

<210> 85
<211> 237
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 85
Met Ala Arg Gly Pro Leu Ala Ala Arg Gly Leu Arg Leu Leu Leu Pro
1 5 10 15

Leu Leu Pro Leu Leu Pro Leu Pro Gln Val Gly Arg Ala Ala Phe Ser
20 25 30

Leu Gly Ser Ala Thr Ala Gly Arg Val Pro Xaa Xaa Thr Thr Pro Leu
35 40 45

Pro Gly Ser Pro Leu Ser Pro Gln Val Ala Leu Gly Phe Ala Asp Gly
50 55 60

Ser Cys Asp Pro Ser Asp Gln Cys Pro Pro Gln Ala Arg Trp Ser Ser
65 70 75 80

Leu Trp His Val Gly Leu Ile Leu Leu Ala Val Leu Leu Leu Leu Leu
85 90 95

Cys Gly Val Thr Ala Gly Cys Val Arg Phe Cys Cys Leu Arg Lys Gln
100 105 110

Ala Gln Ala Gln Pro His Leu Pro Pro Ala Arg Gln Pro Cys Asp Val
115 120 125

Ala Val Ile Pro Met Asp Ser Asp Ser Pro Val His Ser Thr Val Thr
130 135 140

Ser Tyr Ser Ser Val Gln Tyr Pro Leu Gly Met Arg Leu Pro Leu Pro
145 150 155 160

Phe Gly Glu Leu Asp Leu Asp Ser Xaa Ala Pro Pro Ala Tyr Ser Leu
165 170 175

Tyr Thr Pro Glu Pro Pro Pro Ser Tyr Asp Glu Ala Val Lys Met Ala
180 185 190

Lys Pro Arg Glu Glu Gly Pro Ala Leu Ser Gln Lys Pro Ser Pro Leu
195 200 205

```
Leu Gly Ala Ser Gly Leu Glu Thr Thr Pro Val Pro Gln Glu Ser Gly
    210                 215                 220

Pro Asn Thr Gln Leu Pro Pro Cys Ser Pro Gly Ala Pro
225                 230                 235



<210> 86
<211> 202
<212> PRT
<213> Homo sapiens

<400> 86
Met Met Ser Leu Thr Leu Leu Phe Cys Leu Leu Ser Phe Gln Phe Pro
  1               5                  10                  15

Phe Val Phe Pro Ala Arg Asn Ile Ser Leu Lys Cys Val Gln Asp Thr
            20                  25                  30

Asp Glu Phe Leu Ser Asp Leu Asn Ser Val Lys Pro Lys Glu Tyr Ala
        35                  40                  45

Leu Arg Met Tyr Asp Ser Leu Gly Lys Leu Gly Ser Asn Thr Phe Asn
    50                  55                  60

Gly Asn Asn Gly Gln Ala Gly Ile Ile His Gly Val Ser Phe His Pro
65                  70                  75                  80

Cys Ser Gln Gly Glu Leu Pro Arg Val Val Leu Gln Ala Ser Tyr Thr
                85                  90                  95

Ala Ala Ala Asn Leu Leu Gly Met Ile Met Arg Ile Cys Tyr Glu Cys
            100                 105                 110

Gln Asn Glu Arg Thr Leu Trp Arg Cys Val Ser Gln Asp Gly Ala Asp
        115                 120                 125

Tyr Ser Val Gly Val Cys Val Pro Asp Ser Cys Ala Glu Glu Asp Val
    130                 135                 140

Thr Leu Met Ser Arg Leu Asp Val Arg Gln Pro Ala Arg Gln Tyr Gln
145                 150                 155                 160

Val Glu Ala Val Cys Thr Asp Cys Thr His Pro Glu Glu Gly Ser Arg
                165                 170                 175

Glu Gly Trp Ser Gln Ile Gly Arg Glu Lys Val Pro Gln Tyr Cys Arg
            180                 185                 190

Gly Arg Ala Arg Ser Trp Gln Val Arg Thr
        195                 200



<210> 87
<211> 98
<212> PRT
<213> Homo sapiens

<400> 87
Met Gly Glu Pro Gly Gln Ser Pro Ser Pro Arg Ser Ser His Gly Ser
  1               5                  10                  15

Pro Pro Thr Leu Ser Thr Leu Thr Leu Leu Leu Leu Leu Cys Gly His
            20                  25                  30
```

```
Ala His Ser Gln Cys Lys Ile Leu Arg Cys Asn Ala Glu Tyr Val Ser
         35                  40                  45

Ser Thr Leu Ser Leu Arg Gly Gly Gly Ser Ser Gly Ala Leu Arg Gly
     50                  55                  60

Gly Gly Gly Gly Gly Arg Gly Gly Gly Val Gly Ser Gly Gly Leu Cys
 65                  70                  75                  80

Arg Ala Leu Gln Val Ser Asp Ser Leu Asp Gln Ser Ala Ile Val Gly
                 85                  90                  95

Glu Leu
```

<210> 88
<211> 95
<212> PRT
<213> Homo sapiens

<400> 88

```
Met Phe Ser Glu Ala Leu Leu Ile His Arg Thr Tyr Leu Ala Tyr Leu
  1               5                  10                  15

Phe Ala Cys Leu Leu Leu Met Ser Ser Leu Thr Glu Ser Leu Leu Gln
             20                  25                  30

Arg Thr Thr Pro Ala Ser Arg Pro Arg Asn Val Gly Lys Gly Lys Ala
         35                  40                  45

Trp Leu Val Leu Val Glu Met Glu Met Leu Val Thr Val Glu Glu Cys
     50                  55                  60

Pro Pro Ser Asp Ser Gln Gly Glu Val Leu Trp Ala Pro Ala Thr Ala
 65                  70                  75                  80

Arg Gly Leu Gln Leu Leu Val Val Leu Leu Arg Gly Cys Gly Ile
                 85                  90                  95
```

<210> 89
<211> 187
<212> PRT
<213> Homo sapiens

<400> 89

```
Val Asp Met Ala Ala Gly Pro Ile Arg Val Val Leu Val Leu Leu Gly
  1               5                  10                  15

Val Leu Ser Val Cys Ala Ala Ser Gly His Gly Ser Val Ala Glu Arg
             20                  25                  30

Glu Ala Gly Gly Glu Ala Glu Trp Ala Glu Pro Trp Asp Gly Ala Val
         35                  40                  45

Phe Arg Pro Pro Ser Ala Leu Gly Ala Pro Pro Arg Gly Val Ala Pro
     50                  55                  60

Gln Gln Leu Leu Ala Glu Pro Arg Pro Gly His Pro Pro Leu Gln Ser
 65                  70                  75                  80

Tyr Leu His Leu Gln Ser Pro Leu Gly Leu Pro Ala Val Ala Ala Val
                 85                  90                  95

Ala Ala Arg Asp Arg Leu Ser Ala Pro Pro Gly Ala Ser Ala His Gly
```

```
            100                 105                 110

Thr Arg Gly Val Ala Pro Pro Arg Leu Arg Ala Ala Ala Leu Ser Ala
        115                 120                 125

Val Thr Leu Arg Arg Ala Ser Gly Pro Gly Pro Leu Arg Ala Arg Ala
    130                 135                 140

His Ala Pro His Pro Gly Arg Leu Leu Arg Glu Met Pro Ala Glu Ser
145                 150                 155                 160

Gly Ala Ala Tyr Arg Ala Ala Thr Gly His Ser His Gly His His Arg
                165                 170                 175

Gly Ser Arg Ala Leu Gly Phe Leu Val Pro Leu
            180                 185



<210> 90
<211> 187
<212> PRT
<213> Homo sapiens

<400> 90
Val Asp Met Ala Ala Gly Pro Ile Arg Val Val Leu Val Leu Leu Gly
  1               5                  10                  15

Val Leu Ser Val Cys Ala Ala Ser Gly His Gly Ser Val Ala Glu Arg
             20                  25                  30

Glu Ala Gly Gly Glu Ala Glu Trp Ala Glu Pro Trp Asp Gly Ala Val
         35                  40                  45

Phe Arg Pro Pro Ser Ala Leu Gly Ala Pro Pro Arg Gly Val Ala Pro
     50                  55                  60

Gln Gln Leu Leu Ala Glu Pro Arg Pro Gly His Pro Pro Leu Gln Ser
 65                  70                  75                  80

Tyr Leu His Leu Gln Ser Pro Leu Gly Leu Pro Ala Val Ala Ala Val
                 85                  90                  95

Ala Ala Arg Asp Arg Leu Ser Ala Pro Pro Gly Ala Ser Ala His Gly
            100                 105                 110

Thr Arg Gly Val Ala Pro Pro Arg Leu Arg Ala Ala Ala Leu Ser Ala
        115                 120                 125

Val Thr Leu Arg Arg Ala Ser Gly Pro Gly Pro Leu Arg Ala Arg Ala
    130                 135                 140

His Ala Pro His Pro Gly Arg Leu Leu Arg Glu Met Pro Ala Glu Ser
145                 150                 155                 160

Gly Ala Ala Tyr Arg Ala Ala Thr Gly His Ser His Gly His His Arg
                165                 170                 175

Gly Ser Arg Ala Leu Gly Phe Leu Val Pro Leu
            180                 185



<210> 91
<211> 13
<212> PRT
<213> Homo sapiens
```

<400> 91
Leu Arg Val Cys Ala Val Asp Ala Pro Tyr Val Pro Trp
1 5 10

<210> 92
<211> 319
<212> PRT
<213> Homo sapiens

<400> 92
Met Leu Pro Arg Arg Pro Leu Ala Trp Pro Ala Trp Leu Leu Arg Gly
1 5 10 15

Ala Pro Gly Ala Ala Gly Ser Trp Gly Arg Pro Val Gly Pro Leu Ala
20 25 30

Arg Arg Gly Cys Cys Ser Ala Pro Gly Thr Pro Glu Val Pro Leu Thr
35 40 45

Arg Glu Arg Tyr Pro Val Gln Arg Leu Pro Phe Ser Thr Val Ser Lys
50 55 60

Gln Asp Leu Ala Ala Phe Glu Arg Ile Val Pro Gly Gly Val Val Thr
65 70 75 80

Asp Pro Glu Ala Leu Gln Ala Pro Asn Val Asp Trp Leu Arg Thr Leu
85 90 95

Arg Gly Cys Ser Lys Val Leu Leu Arg Pro Arg Thr Ser Glu Glu Val
100 105 110

Ser His Ile Leu Arg His Cys His Glu Arg Asn Leu Ala Val Asn Pro
115 120 125

Gln Gly Gly Asn Thr Gly Met Val Gly Gly Ser Val Pro Val Phe Asp
130 135 140

Glu Ile Ile Leu Ser Thr Ala Arg Met Asn Arg Val Leu Ser Phe His
145 150 155 160

Ser Val Ser Gly Ile Leu Val Cys Gln Ala Gly Cys Val Leu Glu Glu
165 170 175

Leu Ser Arg Tyr Val Glu Glu Arg Asp Phe Ile Met Pro Leu Asp Leu
180 185 190

Gly Ala Lys Gly Ser Cys His Ile Gly Gly Asn Val Ala Thr Asn Ala
195 200 205

Gly Gly Leu Arg Phe Leu Arg Tyr Gly Ser Leu His Gly Thr Val Leu
210 215 220

Gly Leu Glu Val Val Leu Ala Asp Gly Thr Val Leu Asp Cys Leu Thr
225 230 235 240

Ser Leu Arg Lys Asp Asn Thr Gly Tyr Asp Leu Lys Gln Leu Phe Ile
245 250 255

Gly Ser Glu Gly Thr Leu Gly Ile Ile Thr Thr Val Ser Ile Leu Cys
260 265 270

Pro Pro Lys Pro Arg Ala Val Asn Val Ala Phe Leu Val Thr Cys Val
275 280 285

Leu Pro Ala Cys Gly Pro Gly Ser Pro Arg Pro Ala Arg Leu Pro His
290 295 300

```
Pro Ala Leu Arg Thr Pro Gly Val Cys Pro Gln Pro Leu Arg Leu
305                 310                 315


<210> 93
<211> 243
<212> PRT
<213> Homo sapiens

<400> 93
Met Leu Pro Arg Arg Pro Leu Ala Trp Pro Ala Trp Leu Leu Arg Gly
  1               5                  10                  15

Ala Pro Gly Ala Ala Gly Ser Trp Gly Arg Pro Val Gly Pro Leu Ala
            20                  25                  30

Arg Arg Gly Cys Cys Ser Ala Pro Gly Thr Pro Glu Val Pro Leu Thr
        35                  40                  45

Arg Glu Arg Tyr Pro Val Gln Arg Leu Pro Phe Ser Thr Val Ser Lys
    50                  55                  60

Gln Asp Leu Ala Ala Phe Glu Arg Ile Val Pro Gly Gly Val Val Thr
65                  70                  75                  80

Asp Pro Glu Ala Leu Gln Ala Pro Asn Val Asp Trp Leu Arg Thr Leu
                85                  90                  95

Arg Gly Cys Ser Lys Val Leu Leu Arg Pro Arg Thr Ser Glu Glu Val
            100                 105                 110

Ser His Ile Leu Arg His Cys His Glu Arg Asn Leu Ala Val Asn Pro
        115                 120                 125

Gln Gly Gly Asn Thr Gly Met Val Gly Gly Ser Val Pro Val Phe Asp
    130                 135                 140

Glu Ile Ile Leu Ser Thr Ala Arg Met Asn Arg Val Leu Ser Phe His
145                 150                 155                 160

Ser Val Ser Gly Gly Leu Arg Pro Gly Gly Ala Glu Pro Val Cys Gly
                165                 170                 175

Gly Thr Gly Leu His His Ala Ala Gly Leu Arg Ser Gln Gly Gln Leu
            180                 185                 190

Pro His Arg Gly Lys Arg Gly Asn Gln Arg Trp Arg Pro Ala Val Ser
        195                 200                 205

Ser Ile Trp Leu Thr Ala Trp Asp Cys Pro Gly Pro Gly Ser Gly Ala
    210                 215                 220

Gly Arg Arg His Cys Pro Gly Leu Pro Asp Leu Pro Glu Glu Gly Gln
225                 230                 235                 240

His Gly Leu


<210> 94
<211> 97
<212> PRT
<213> Homo sapiens

<400> 94
```

```
Met Leu Trp Lys Leu Lys Leu Ser Arg Cys Trp Leu Asp Leu Thr Leu
  1               5                  10                  15

Leu Ile Phe Ser Gln Ile Ser His Met Asp Gln Ile Ile Phe Phe Phe
            20                  25                  30

Val Val Tyr Pro Ile Leu Asn Asn Ile Phe Ser Leu Asn Tyr Cys Arg
        35                  40                  45

Asp Phe Phe Cys Gly Gly Tyr Phe Leu Phe Cys Ser Lys Ile Ile Arg
    50                  55                  60

Cys Lys Ala Ile Leu Cys Leu Thr Val Ala Leu Ser Lys Gln Leu Cys
65                  70                  75                  80

Ser Gly Val Ala Phe Asp Val Leu Glu Phe Asp Tyr Met Gln Ser Cys
                85                  90                  95

Ile
```

<210> 95
<211> 333
<212> PRT
<213> Homo sapiens

<400> 95

```
Met Arg Ile Trp Trp Leu Leu Leu Ala Ile Glu Ile Cys Thr Gly Asn
  1               5                  10                  15

Ile Asn Ser Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile Pro Gly
            20                  25                  30

Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala
        35                  40                  45

Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro
    50                  55                  60

Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala Asp Gly
65                  70                  75                  80

Lys Val Glu Ala Lys Gly Ile Lys Gly Asp Gln Gly Ser Arg Gly Ser
                85                  90                  95

Pro Gly Lys His Gly Pro Lys Gly Leu Ala Gly Pro Met Gly Glu Lys
            100                 105                 110

Gly Leu Arg Gly Glu Thr Gly Pro Gln Gly Gln Lys Gly Asn Lys Gly
        115                 120                 125

Asp Val Gly Pro Thr Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro
    130                 135                 140

Leu Gly Pro Thr Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro
145                 150                 155                 160

Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro Gly
                165                 170                 175

Val Arg Gly Ile Arg Gly Trp Lys Gly Asp Arg Gly Glu Lys Gly Lys
            180                 185                 190

Ile Gly Glu Thr Leu Val Leu Pro Lys Ser Ala Phe Thr Val Gly Leu
        195                 200                 205
```

```
Thr Val Leu Ser Lys Phe Pro Ser Ser Asp Val Pro Ile Lys Phe Asp
    210                 215                 220

Lys Ile Leu Tyr Asn Glu Phe Asn His Tyr Asp Thr Ala Ala Gly Lys
225                 230                 235                 240

Phe Thr Cys His Ile Ala Gly Val Tyr Tyr Phe Thr Tyr His Ile Thr
                245                 250                 255

Val Phe Ser Arg Asn Val Gln Val Ser Leu Val Lys Asn Gly Val Lys
            260                 265                 270

Ile Leu His Thr Lys Asp Ala Tyr Met Ser Ser Glu Asp Gln Ala Ser
        275                 280                 285

Gly Gly Ile Val Leu Gln Leu Lys Leu Gly Asp Glu Val Trp Leu Gln
    290                 295                 300

Val Thr Gly Gly Glu Arg Phe Asn Gly Leu Phe Ala Asp Glu Asp Asp
305                 310                 315                 320

Asp Thr Thr Phe Thr Gly Phe Leu Leu Phe Ser Ser Pro
                325                 330
```

<210> 96
<211> 96
<212> PRT
<213> Homo sapiens

<400> 96

```
Met Ile Ser Cys Leu Ile Leu Leu Gly Pro Gly Arg Cys Gly Ala Cys
  1               5                  10                  15

Asn Cys Ser Thr Phe Ser Trp Val Phe Leu Phe Ser Phe Phe Gly Ser
            20                  25                  30

Leu Ala Met Cys Val Leu Tyr Asp Glu Ala Pro Ser Phe Cys Arg Ile
        35                  40                  45

Ser Ile Leu Pro Arg Ser Lys Ala Thr Ile Ser Asp Val Gly Leu Ser
    50                  55                  60

Leu Phe Ser Trp Ala Thr Met His Ala Ser Gly Phe Gln Val Val Leu
65                  70                  75                  80

Ala Leu Pro Tyr Phe Thr Phe Ile Leu Pro Ser Gln Leu Pro Val Arg
                85                  90                  95
```

<210> 97
<211> 192
<212> PRT
<213> Homo sapiens

<400> 97

```
Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys
 1               5                  10                  15

Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys
            20                  25                  30

Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu
```

```
         35                  40                  45

Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His
      50                  55                  60

Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg
 65                  70                  75                  80

Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala
                85                  90                  95

Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe
            100                 105                 110

Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys
        115                 120                 125

Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile
    130                 135                 140

Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu
145                 150                 155                 160

Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala
                165                 170                 175

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr
            180                 185                 190
```

<210> 98
<211> 119
<212> PRT
<213> Homo sapiens

<400> 98

```
Met Ser Val Cys Phe Leu Gln Phe Leu Leu Met Val Leu Thr Gly Thr
  1               5                  10                  15

Glu Ser Ile Tyr Ser Thr Leu Gln Asn Cys Val Ser Cys Ile Val Ile
            20                  25                  30

Gln Phe Ile Asp Leu Tyr Ser Ile Val Ile Thr Thr His Ser Gly Met
        35                  40                  45

His Glu Ser Glu Ala Glu His His Leu Arg Leu Val Leu Tyr Asn Ile
     50                  55                  60

Ile Pro Thr Asp Val Gly Pro Gly Asn Arg Thr Glu Pro Val Phe Phe
 65                  70                  75                  80

Leu Met Leu Ser Arg Leu Pro Pro Val Gly Leu Leu Leu Asp Ile Ser
                85                  90                  95

Pro Phe Gly Leu Phe Leu His Ser Asn Pro Ala Gly Thr Val Asn Asn
            100                 105                 110

Trp Met Phe Ile Lys Trp Gly
        115
```

<210> 99
<211> 119

<212> PRT
<213> Homo sapiens

<400> 99
Met Ser Val Cys Phe Leu Gln Phe Leu Leu Met Val Leu Thr Gly Thr
1 5 10 15

Glu Ser Ile Tyr Ser Thr Leu Gln Asn Cys Val Ser Cys Ile Val Ile
20 25 30

Gln Phe Ile Asp Leu Tyr Ser Ile Val Ile Thr Thr His Ser Gly Met
35 40 45

His Glu Ser Glu Ala Glu His His Leu Arg Leu Val Leu Tyr Asn Ile
50 55 60

Ile Pro Thr Asp Val Gly Pro Gly Asn Arg Thr Glu Pro Val Phe Phe
65 70 75 80

Leu Met Leu Ser Arg Leu Pro Pro Val Gly Leu Leu Leu Asp Ile Ser
85 90 95

Pro Phe Gly Leu Phe Leu His Ser Asn Pro Ala Gly Thr Val Asn Asn
100 105 110

Trp Met Phe Ile Lys Trp Gly
115

<210> 100
<211> 119
<212> PRT
<213> Homo sapiens

<400> 100
Met Ser Val Cys Phe Leu Gln Phe Leu Leu Met Val Leu Thr Gly Thr
1 5 10 15

Glu Ser Ile Tyr Ser Thr Leu Gln Asn Cys Val Ser Cys Ile Val Ile
20 25 30

Gln Phe Ile Asp Leu Tyr Ser Ile Val Ile Thr Thr His Ser Gly Met
35 40 45

His Glu Ser Glu Ala Glu His His Leu Arg Leu Val Leu Tyr Asn Ile
50 55 60

Ile Pro Thr Asp Val Gly Pro Gly Asn Arg Thr Glu Pro Val Phe Phe
65 70 75 80

Leu Met Leu Ser Arg Leu Pro Pro Val Gly Leu Leu Leu Asp Ile Ser
85 90 95

Pro Phe Gly Leu Phe Leu His Ser Asn Pro Ala Gly Thr Val Asn Asn
100 105 110

Trp Met Phe Ile Lys Trp Gly
115

<210> 101
<211> 169
<212> PRT
<213> Homo sapiens

<400> 101

```
Met Tyr Gln Tyr Arg Val Asp Thr Gly Asn Phe Gln Gly Met Lys Val
  1               5                  10                  15

Phe Phe Met Val Val Ala Ala Val Tyr Ile Leu Tyr Leu Leu Phe Leu
             20                  25                  30

Ile Val Arg Ala Cys Ser Glu Leu Arg His Met Pro Tyr Val Asp Leu
         35                  40                  45

Arg Leu Lys Phe Leu Thr Ala Leu Thr Phe Val Val Leu Val Ile Ser
     50                  55                  60

Ile Ala Ile Leu Tyr Leu Arg Phe Gly Ala Gln Val Leu Gln Asp Asn
 65                  70                  75                  80

Phe Val Ala Glu Leu Ser Thr His Tyr Gln Asn Ser Ala Glu Phe Leu
                 85                  90                  95

Ser Phe Tyr Gly Leu Leu Asn Phe Tyr Leu Tyr Thr Leu Ala Phe Val
            100                 105                 110

Tyr Ser Pro Ser Lys Asn Ala Leu Tyr Glu Ser Gln Leu Lys Asp Asn
        115                 120                 125

Pro Ala Phe Ser Met Leu Asn Asp Ser Asp Asp Asp Val Ile Tyr Gly
    130                 135                 140

Ser Asp Tyr Glu Glu Met Pro Leu Gln Asn Gly Gln Ala Ile Arg Ala
145                 150                 155                 160

Lys Tyr Lys Glu Glu Ser Asp Ser Asp
                165
```

<210> 102
<211> 169
<212> PRT
<213> Homo sapiens

<400> 102

```
Met Tyr Gln Tyr Arg Val Asp Thr Gly Asn Phe Gln Gly Met Lys Val
  1               5                  10                  15

Phe Phe Met Val Val Ala Ala Val Tyr Ile Leu Tyr Leu Leu Phe Leu
             20                  25                  30

Ile Val Arg Ala Cys Ser Glu Leu Arg His Met Pro Tyr Val Asp Leu
         35                  40                  45

Arg Leu Lys Phe Leu Thr Ala Leu Thr Phe Val Val Leu Val Ile Ser
     50                  55                  60

Ile Ala Ile Leu Tyr Leu Arg Phe Gly Ala Gln Val Leu Gln Asp Asn
 65                  70                  75                  80

Phe Val Ala Glu Leu Ser Thr His Tyr Gln Asn Ser Ala Glu Phe Leu
                 85                  90                  95

Ser Phe Tyr Gly Leu Leu Asn Phe Tyr Leu Tyr Thr Leu Ala Phe Val
            100                 105                 110

Tyr Ser Pro Ser Lys Asn Ala Leu Tyr Glu Ser Gln Leu Lys Asp Asn
        115                 120                 125

Pro Ala Phe Ser Met Leu Asn Asp Ser Asp Asp Asp Val Ile Tyr Gly
    130                 135                 140
```

Ser Asp Tyr Glu Glu Met Pro Leu Gln Asn Gly Gln Ala Ile Arg Ala
145 150 155 160

Lys Tyr Lys Glu Glu Ser Asp Ser Asp
165

<210> 103
<211> 81
<212> PRT
<213> Homo sapiens

<400> 103
Met Pro Pro Leu Pro Pro Ile Phe Gln Lys Ser Leu Ala Pro Leu Phe
1 5 10 15

Leu Phe Leu His Pro Ser Pro Gln Arg Ser Leu Thr Arg Asn Lys Gln
20 25 30

Glu Asp Ser Val Ile Tyr Lys Arg His Phe Ser Phe Thr Arg Thr Glu
35 40 45

Asn Ser Thr Gln His Tyr Arg Ile Leu Arg Leu Leu Lys Phe Leu Val
50 55 60

Phe Pro Gly Val Ser Leu Phe Ile Arg Gly Pro Met Val Phe Pro Pro
65 70 75 80

Phe

<210> 104
<211> 56
<212> PRT
<213> Homo sapiens

<400> 104
Met Asn Thr Tyr Lys Pro Phe Ala Lys Tyr Lys Asn Met Thr Cys Phe
1 5 10 15

Leu His Leu Leu Met Cys Phe Phe Pro Phe Pro Phe Leu Cys Cys Leu
20 25 30

Pro Cys Ile His Gly His Phe Lys Ile Cys Tyr Ser Ile Ala Tyr Ser
35 40 45

Val Gly Arg Phe Arg Phe Phe Ser
50 55

<210> 105
<211> 56
<212> PRT
<213> Homo sapiens

<400> 105
Met Asn Thr Tyr Lys Pro Phe Ala Lys Tyr Lys Asn Met Thr Cys Phe
1 5 10 15

Leu His Leu Leu Met Cys Phe Phe Pro Phe Pro Phe Leu Cys Cys Leu
20 25 30

Pro Cys Ile His Gly His Phe Lys Ile Cys Tyr Ser Ile Ala Tyr Ser
35 40 45

Val Gly Arg Phe Arg Phe Phe Ser
50 55

<210> 106
<211> 109
<212> PRT
<213> Homo sapiens

<400> 106
Met Thr Asp Tyr Trp Val Leu Ile Phe Phe Asn Leu Leu Phe Thr Ser
1 5 10 15

Ala Pro Pro Val Ile Tyr Gly Val Leu Glu Lys Asp Val Ser Ala Glu
20 25 30

Thr Leu Met Gln Leu Pro Glu Leu Tyr Arg Ser Gly Gln Lys Ser Glu
35 40 45

Ala Tyr Leu Pro His Thr Phe Trp Ile Thr Leu Leu Asp Ala Phe Tyr
50 55 60

Gln Ser Leu Val Cys Phe Phe Val Pro Tyr Phe Thr Tyr Gln Gly Ser
65 70 75 80

Asp Thr Asp Ile Phe Ala Phe Gly Asn Pro Leu Asn Thr Ala Ala Leu
85 90 95

Leu Ser Phe Ser Ser Ile Trp Ser Leu Lys Ala Arg Val
100 105

<210> 107
<211> 285
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (248)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 107
Met Thr Asp Tyr Trp Val Leu Ile Phe Phe Asn Leu Leu Phe Thr Ser
1 5 10 15

Ala Pro Pro Val Ile Tyr Gly Val Leu Glu Lys Asp Val Ser Ala Glu
20 25 30

Thr Leu Met Gln Leu Pro Glu Leu Tyr Arg Ser Gly Gln Lys Ser Glu
35 40 45

Ala Tyr Leu Pro His Thr Phe Trp Ile Thr Leu Leu Asp Ala Phe Tyr
50 55 60

Gln Ser Leu Val Cys Phe Phe Val Pro Tyr Phe Thr Tyr Gln Gly Ser
65 70 75 80

Asp Thr Asp Ile Phe Ala Phe Gly Asn Pro Leu Asn Thr Ala Ala Leu
85 90 95

```
Phe Ile Xaa Leu Leu His Leu Val Ile Glu Ser Lys Ser Leu Thr Trp
            100                 105                 110

Ile His Leu Leu Val Ile Ile Gly Ser Ile Leu Ser Tyr Phe Leu Phe
        115                 120                 125

Ala Ile Val Phe Gly Ala Met Cys Val Thr Cys Asn Pro Pro Ser Asn
    130                 135                 140

Pro Tyr Trp Ile Met Gln Glu His Met Leu Asp Pro Val Phe Tyr Leu
145                 150                 155                 160

Val Cys Ile Leu Thr Thr Ser Ile Ala Leu Leu Pro Arg Phe Val Tyr
                165                 170                 175

Arg Val Leu Gln Gly Ser Leu Phe Pro Ser Pro Ile Leu Arg Ala Lys
            180                 185                 190

His Phe Asp Arg Leu Thr Pro Glu Glu Arg Thr Lys Ala Leu Lys Lys
        195                 200                 205

Trp Arg Gly Ala Gly Lys Met Asn Gln Val Thr Ser Lys Tyr Ala Asn
    210                 215                 220

Gln Ser Ala Gly Lys Ser Gly Arg Arg Pro Met Pro Gly Pro Ser Ala
225                 230                 235                 240

Val Phe Ala Met Lys Ser Ala Xaa Ser Cys Ala Ile Glu Gln Gly Asn
                245                 250                 255

Leu Ser Leu Cys Glu Thr Ala Leu Asp Gln Gly Tyr Ser Glu Thr Lys
            260                 265                 270

Ala Phe Glu Met Ala Gly Pro Ser Lys Gly Lys Glu Ser
        275                 280                 285
```

<210> 108
<211> 87
<212> PRT
<213> Homo sapiens

<400> 108

```
Met His Phe Leu Arg Gly Leu Pro Ala Gly Ala Pro Leu Arg Leu Val
  1               5                  10                  15

Phe Leu Leu Asn Val Leu Leu Leu Gly Leu Trp Asn Phe Leu Leu Leu
            20                  25                  30

Cys Thr Val Ile Tyr Phe His Gln Tyr Thr His Lys Val Val Gly Ala
        35                  40                  45

Ala Val Gly Thr Phe Ala Trp Tyr Leu Thr Tyr Gly Ser Trp Tyr His
     50                  55                  60

Gln Pro Trp Ser Pro Gly Ser Pro Gly His Gly Leu Phe Pro Arg Pro
 65                  70                  75                  80

His Ser Ser Arg Lys His Asn
                85
```

<210> 109
<211> 87
<212> PRT

<213> Homo sapiens

<400> 109

```
Met His Phe Leu Arg Gly Leu Pro Ala Gly Ala Pro Leu Arg Leu Val
  1               5                  10                  15

Phe Leu Leu Asn Val Leu Leu Leu Gly Leu Trp Asn Phe Leu Leu Leu
             20                  25                  30

Cys Thr Val Ile Tyr Phe His Gln Tyr Thr His Lys Val Val Gly Ala
         35                  40                  45

Ala Val Gly Thr Phe Ala Trp Tyr Leu Thr Tyr Gly Ser Trp Tyr His
     50                  55                  60

Gln Pro Trp Ser Pro Gly Ser Pro Gly His Gly Leu Phe Pro Arg Pro
 65                  70                  75                  80

His Ser Ser Arg Lys His Asn
                 85
```

<210> 110
<211> 160
<212> PRT
<213> Homo sapiens

<400> 110

```
Met Glu Glu Gly Ser Ser Ser Pro Val Ser Pro Val Asp Ser Leu Gly
  1               5                  10                  15

Thr Ser Glu Glu Glu Leu Glu Arg Gln Pro Lys Arg Phe Gly Arg Lys
             20                  25                  30

Arg Arg Tyr Ser Lys Lys Ser Ser Glu Asp Gly Ser Pro Thr Pro Gly
         35                  40                  45

Lys Arg Gly Lys Lys Gly Ser Pro Ser Ala Gln Ser Phe Glu Glu Leu
     50                  55                  60

Gln Ser Gln Arg Ile Leu Ala Asn Val Arg Glu Arg Gln Arg Thr Gln
 65                  70                  75                  80

Ser Leu Asn Glu Ala Phe Ala Ala Leu Arg Lys Ile Ile Pro Thr Leu
                 85                  90                  95

Pro Ser Asp Lys Leu Ser Lys Ile Gln Thr Leu Lys Leu Ala Ala Arg
            100                 105                 110

Tyr Ile Asp Phe Leu Tyr Gln Val Leu Gln Ser Asp Glu Met Asp Asn
        115                 120                 125

Lys Met Thr Ser Cys Ser Tyr Val Ala His Glu Arg Leu Ser Tyr Ala
    130                 135                 140

Phe Ser Val Trp Arg Met Glu Gly Ala Trp Ser Met Ser Ala Ser His
145                 150                 155                 160
```

<210> 111
<211> 86
<212> PRT
<213> Homo sapiens

<400> 111
Met Val Ile Leu Phe Leu Phe Gly Phe Phe Phe Trp Val Leu Cys Leu
1 5 10 15

Gly Gly Gly Leu Phe Phe Leu Lys Met Ser Arg Phe Arg Asn Thr Phe
20 25 30

Met Arg Ile Trp Ile Leu Asn Leu Tyr Phe Pro Leu Ser Ala Phe Phe
35 40 45

Asn Val Tyr Phe Phe Asn Lys Thr Glu Met His Ser Cys Thr Ile Leu
50 55 60

Leu Lys Leu Asp Gln Gly Ser Gln Lys Arg Thr Pro Glu Phe Leu Pro
65 70 75 80

Leu Pro Arg Ala Ser Ala
85

<210> 112
<211> 201
<212> PRT
<213> Homo sapiens

<400> 112
Met Arg Glu Gln Arg Thr Ala Glu Gln Ser Glu Thr Gln Arg Thr Trp
1 5 10 15

Leu Ser Met Ala Ala Thr Leu Gln Phe Leu Val Cys Leu Val Val Ala
20 25 30

Ile Cys Leu Leu Ser Gly Val Thr Thr Thr Gln Pro His Ala Gly Gln
35 40 45

Pro Met Asp Ser Thr Ser Val Gly Gly Gly Leu Gln Glu Pro Glu Ala
50 55 60

Pro Glu Val Met Phe Glu Leu Leu Trp Ala Gly Leu Glu Leu Asp Val
65 70 75 80

Met Gly Gln Leu His Ile Gln Asp Glu Glu Leu Ala Ser Thr His Pro
85 90 95

Gly Arg Arg Leu Arg Leu Leu Leu Gln His His Val Pro Ser Asp Leu
100 105 110

Glu Gly Thr Glu Gln Trp Leu Gln Gln Leu Gln Asp Leu Arg Lys Gly
115 120 125

Pro Pro Leu Ser Thr Trp Asp Phe Glu His Leu Leu Leu Thr Gly Leu
130 135 140

Ser Cys Val Tyr Arg Leu His Ala Ala Ser Glu Ala Glu Glu Arg Gly
145 150 155 160

Arg Trp Thr Gln Val Phe Ala Leu Leu Ala Gln Glu Thr Leu Trp Asp
165 170 175

Leu Cys Lys Gly Phe Cys Pro Gln Asp Arg Pro Pro Ser Leu Gly Ser
180 185 190

Trp Ala Ser Ile Leu Asp Pro Phe Pro
195 200

<210> 113
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 113
Met Arg Glu Gln Arg Thr Ala Glu Gln Ser Glu Thr Gln Arg Thr Trp
1 5 10 15

Leu Ser Met Ala Ala Thr Leu Gln Phe Leu Val Cys Leu Val Val Ala
20 25 30

Ile Cys Leu Leu Ser Gly Val Thr Thr Thr Gln Pro His Ala Gly Gln
35 40 45

Pro Met Asp Ser Thr Ser Val Gly Gly Gly Leu Gln Glu Pro Glu Ala
50 55 60

Pro Glu Val Met Phe Glu Leu Leu Trp Ala Gly Leu Glu Leu Asp Val
65 70 75 80

Met Gly Gln Leu His Ile Gln Asp Glu Glu Leu Ala Ser Thr His Pro
85 90 95

Gly Arg Arg Leu Arg Leu Leu Leu Gln His His Val Pro Ser Asp Leu
100 105 110

Glu Gly Thr Glu Gln Trp Leu Gln Gln Leu Gln Asp Leu Arg Lys Gly
115 120 125

Pro Pro Leu Ser Thr Trp Asp Phe Glu His Leu Leu Leu Thr Gly Leu
130 135 140

Ser Cys Val Tyr Arg Leu His Ala Ala Ser Glu Ala Glu Glu Arg Xaa
145 150 155 160

Arg Trp Thr Gln Val Phe Ala Leu Leu Ala Gln Glu Thr Leu Trp Asp
165 170 175

Leu Cys Lys Gly Phe Cys Pro Gln Asp Arg Pro Pro Ser Leu Gly
180 185 190

<210> 114
<211> 237
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 114
Arg Ala Leu Ile Phe Ser Lys Xaa Thr Glu Ser Cys Leu Arg Ala Ala
1 5 10 15

Phe Xaa Tyr Gly Gly Ser Met Ser Xaa Thr Ala Asp Ile Gln Gln Leu
20 25 30

Glu Pro Gly Ser Val Ile Gln Leu Ile Glu Ile Asp Gly Thr Glu Phe
35 40 45

Gly Met Asp Gln Val Leu Arg Phe His Ala His Asn Ile Gln Glu Glu
50 55 60

Gly Trp Ala Ala Phe Ala Ala Glu Asn Leu Pro Ala Ile Ile Trp Gln
65 70 75 80

Gly Asn Gln Tyr Asp Pro His Pro Tyr Glu Leu Lys Gly Met Glu Leu
85 90 95

Ser Ser Thr Gly Ser Gln Pro Thr Pro Thr Leu Ser Val Gly Asn Val
100 105 110

Gly Asn Tyr Val Thr Ala Leu Cys Leu Glu Tyr Asp Asp Met Val Arg
115 120 125

Ala Lys Val Lys Ile His Thr Thr Leu Ser Lys Tyr Leu Asp Ala Ala
130 135 140

Asn Trp Lys Asn Gly Asn Pro Gly Ala Ser Pro Ala Asp Glu Arg Val
145 150 155 160

Gln Leu Phe Tyr Val Asn Ala Lys Thr Ala Glu Thr Arg Val Gln Val
165 170 175

Asp Phe Glu Leu Cys Ser Pro Phe Asp Ile Gln Ser Leu Gln Leu Pro
180 185 190

Thr Arg Gln Ile Thr Pro Val Cys Thr Trp Cys Met Arg Gly Trp Tyr
195 200 205

Arg Ser Gly Thr Gly Cys Asp Tyr Asn Gly Thr Lys Tyr Phe Thr Lys
210 215 220

Asp Gly Thr Pro Thr Asp Asp Pro Ser Lys Asp Val Cys
225 230 235

<210> 115
<211> 137
<212> PRT
<213> Homo sapiens

<400> 115
Met Ser Pro Thr Ala Trp His Pro Ile Pro Ala Ala Thr Leu Trp Cys
1 5 10 15

Phe Gly Cys Gly Ala Leu Thr Cys Leu Val Gly Val Ala Cys Leu Ser
20 25 30

Pro Ser Pro Trp Ile Arg Asn Asn Leu Cys Gln Ser Arg Val Cys Glu
35 40 45

Pro Ser Cys Ser His Pro Ser Thr Ser Trp Ser Leu Ala Ala Trp Ala
50 55 60

Ala Leu Gly Ser His Thr Ser Ala Gly Leu Thr Ser Gly Ala Val Leu
65 70 75 80

Leu Thr Gly Thr Thr Lys Ser Leu Asp Thr Cys Val Pro Trp Lys Trp
85 90 95

Gln Arg Ser Gly Thr Pro Ser Pro Pro Cys Arg Gln Arg Ala Leu Arg
100 105 110

Gln Ser Cys Glu Pro Trp Ala Gly Pro Arg Val Ala Pro Pro Arg Pro
115 120 125

Pro Gly His Gln Gly Ser Glu Gly Glu
130 135

<210> 116
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 116
Tyr Ile Tyr Ile Tyr Ile Tyr Ile Cys Val Cys Val Cys Val Cys Ile
1 5 10 15

Cys Val Tyr Arg Asp Thr His Thr Tyr Ile Cys Val Tyr Ile Tyr Thr
20 25 30

His Thr Tyr Ile Tyr Thr His Ala Phe Ala Gln Thr His Thr Tyr Ile
35 40 45

Asn Ser His Glu Cys Ile Ile Ile Ser Gly Gly Gly Lys Cys Leu Glu
50 55 60

Gly Leu Arg Gly Xaa Ser Asp Xaa Asn Gly Glu Val Gly Ser Xaa Val
65 70 75 80

Gln Gln Asp Xaa Ser Asn Gln
85

<210> 117
<211> 145
<212> PRT
<213> Homo sapiens

<400> 117
Met Ser Ser Leu Phe Phe Thr Leu Leu Ile Val Pro Ser Thr Ser Leu
1 5 10 15

Thr Cys Val Leu His Leu Met Ser Pro Arg Thr Thr Pro His Arg Thr
20 25 30

Val Arg His Val Gly Trp Arg Glu Gln Lys Ser Cys Gln Arg Ser Arg
35 40 45

His Glu His Pro Ser Ala Trp Trp Ala Gly Phe Val Cys Leu Ser Phe
50 55 60

Cys Glu Arg Asn Thr Asp Lys Gln Leu Cys Ser Ala Arg His Thr Asp
65 70 75 80

Val Ser Leu Pro Pro Val Pro Lys Ala Pro Ala Ala Val Ser Phe Ala
85 90 95

Gly Arg Ala Trp Ser Arg Gly Ser Glu Gly Leu Val Phe Gly Pro Pro
100 105 110

Ser Phe Leu Ser Ser Pro Ala Gln Leu Leu Arg Ser Ile Met Ala Ile
115 120 125

Ile Leu Val Pro Asp Cys Pro Lys Val Pro Ser Trp Leu Trp Gly Thr
130 135 140

Leu
145

<210> 118
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 118
Val Phe Phe Leu Ile Leu Tyr Gly Pro Ser Asp Tyr Ile Xaa Phe Ile
1 5 10 15

His Leu Phe Met Val Cys Met Tyr Asn Ser Ile Leu His Cys Gln Ile
20 25 30